

POST TROPICAL CYCLONE REPORT

Storm Name	Tropical Storm Ophelia	
NWS Office	Newport/Morehead City, NC	
Begin/End Date	09/22/2023 - 9/23/2023	
Fatalities	0	Direct
	0	Indirect
Tornadoes		

Event Summary

On Thursday, September 21st, an area of low pressure began to develop and get more organized off the Southeast US coastline. That low continued to deepen and become more organized, eventually taking on tropical characteristics, becoming the 15th named storm of the 2023 Atlantic Hurricane Season on Friday, September 22nd. Ophelia developed into a strong tropical storm and moved north over the next couple of days, making landfall during the early morning hours near Emerald Isle, NC. Ophelia continued to march north through the heart of Eastern North Carolina on Saturday, September 23rd. Ophelia eventually weakened to a Tropical Depression Saturday evening over southern Virginia.

Ophelia brought widespread heavy rainfall, gusty winds, and significant river and storm surge flooding to portions of Eastern North Carolina, and is a reminder that it's never "just a tropical storm". One of the more notable impacts with Ophelia was flooding, both from storm surge and from heavy rain of over 8 inches in some places and flash flooding. Significant storm surge flooding of 4 to 6 feet occurred along the Neuse, Pamlico, and Pungo Rivers. Inland, significant flooding occurred in the Greenville area due to flash flooding and a rapidly rising Green Mill Run.

NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.

Highest 10 Land Winds (kts)*

Station	State	Type	Sustained	Gust
Fort Macon	NC	Mesonet	40	57
Oregon Inlet CG	NC	Mesonet	40	59
Buxton	NC	Mesonet	39	53
Avon-Sound	NC	Mesonet	38	49
Frisco Woods	NC	Mesonet	37	47
Oregon Inlet	NC	Mesonet	36	49
Kites Resort	NC	Mesonet	35	47
Piney Island - BT11 Bombing Range	NC	ASOS	34	52
Billy Mitchell Field	NC	ASOS	33	45

Beaufort Airport

NC

ASOS

32

54

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Cape Lookout	NDBC	53	63
Jennettes Pier	Mesonet	47	58
Duck	NOS	44	48
Pamlico Sound	Mesonet	44	53
Beaufort	NOS	40	52
Avon-Ocean	Mesonet	39	49
Onslow Bay Outer	CORMP	37	52
Oregon Inlet	NOS	37	47
Diamond Shoals	NDBC	37	49
Real Slick	Mesonet	36	46

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Jacksonville (COOP)	NC	COOP	8.82
Jacksonville 7.0 W	NC	CWOP	8.64
Cape Carteret 1.5 NE	NC	COOP	8.11
WINTERVILLE	NC	CWOP	7.60
Cape Carteret 1.0 NNW	NC	COCORAHS	6.99
New Bern 2.6 SW	NC	COCORAHS	6.85
Cape Carteret 0.8 NE	NC	COCORAHS	6.80
Greenville 4.4 SSE	NC	COCORAHS	6.78
New Bern 8.8 W	NC	COCORAHS	6.65
Trent Woods 1.3 SSE	NC	COCORAHS	6.37

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Pamlico Sound at Oregon Inlet Marina	NC	MHHW	2.52
Atlantic Coast at Beaufort Marine Lab	NC	MHHW	1.76
Pamlico Sound at Coast Guard Hatteras	NC	MHHW	1.50
Atlantic Coast at Duck	NC	MHHW	1.05

Lowest 10 Pressures

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Onslow Bay Outer		CORMP	981.7
Coastal Carolina Airport	NC	ASOS	982.8
Bogue Field	NC	ASOS	983.1
Cherry Point Air Station	NC	ASOS	984.3
Fort Macon	NC	Mesonet	986.9
Beaufort		NOS	987.9
Beaufort Airport	NC	ASOS	989.1
Cape Lookout		NDBC	990.5
Pitt-Greenville Airport	NC	AWOS-3	992.2
New River Air Station	NC	ASOS	992.4

Report Last Updated on 09/28/2023:

The following files have been updated: Wind and Pressure, Rainfall, Water Level, Tornadoes